

Application No. 09/889,751
Attorney Docket No. PG3604USW

BEST AVAILABLE COPY**In the Claims:**

1. (Currently amended) Medicament cartridge for use in an inhalation device comprising a carrier having a substantially planar first face and a plurality of medicament retainers defined by openings in said first face, said openings being directed in a common direction and being positioned upon ~~in~~ a single spiral path arrangement along said first face.
2. (Cancelled)
3. (Currently amended) Medicament cartridge according to Claim 2, wherein said carrier is substantially rigid.
4. (Currently amended) Medicament cartridge according to Claim 3, wherein said carrier is circular in shape and is rotationally mountable.
5. (Previously presented) Medicament cartridge according to Claim 1, wherein each medicament retainer comprises a pocket.
6. (Original) Medicament cartridge according to Claim 5, wherein a seal is provided to each pocket.
7. (Currently amended) Medicament cartridge according to Claim 6, wherein said seal comprises a sealing tape positioned upon said planar first face covering said openings and arranged along ~~said~~ a flat spiral path and wherein each pocket is accessible by progressive removal of the tape from the spiral path.
8. (Previously presented) Medicament cartridge according to Claim 1, wherein each medicament retainer comprises a hole in the carrier.
9. (Original) Medicament cartridge according to Claim 8, wherein each hole is provided with a mesh for retention of medicament.

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10. (Currently amended) Medicament cartridge according to Claim 1 wherein said carrier is elongate, storable in a plane in a flat spiral configuration wherein said openings are directed in said common direction and, said elongate carrier is extendable from the plane of flat spiral configuration as a helix.
11. (Original) Medicament cartridge according to Claim 10, wherein said medicament retainers are serially arranged along the elongate carrier.
12. (Previously presented) Medicament cartridge according to Claims 10, wherein each medicament retainer comprises a cavity in the elongate carrier.
13. (Original) Medicament cartridge according to Claim 12, wherein a seal is provided to each cavity.
14. (Original) Medicament cartridge according to Claim 13, wherein said seal comprises a sealing tape and each cavity is individually accessible by peelable removal of the sealing tape.
15. (Previously presented) Medicament cartridge according to Claim 1, wherein each medicament retainer is sized to retain a single dose of medicament.
16. (Currently amended) Medicament cartridge according to claim 15, having from 60 to 500, ~~preferably from 100 to 300~~, medicament retainers.
17. (Original) Medicament cartridge according to Claim 16, wherein said medicament dose is applied to the carrier by wet or dry printing methods.
18. (Original) Medicament cartridge according to Claim 17, wherein medicament is present in one or more of the medicament retainers.

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19. (Previously presented) Medicament cartridge for use in an inhalation device comprising a carrier having a substantially planar first face having a plurality of medicament doses thereon, wherein said doses are in a single spiral path arrangement along said first face.

20. (Currently amended) Medicament cartridge for use in an inhalation device comprising:

an elongate carrier comprising an upper surface and first and second side surfaces, said side surfaces being narrower than said upper surface, said upper surface having a plurality of medicament doses thereon,

wherein said elongate carrier is (i) storable in a flat spiral configuration wherein said upper surface is presented substantially in a single plane and (ii) is, in use, extended from said plane extendable as a helix.

21. (Currently amended) Inhalation device comprising

a housing having an air inlet, an air outlet and an airway therebetween;

a medicament carrier having a substantially planar first face and a plurality of medicament retainers defining openings in said first face, said openings being directed in a common direction and forming a single spiral path arrangement along said first face
~~plurality of medicament retainers in a single spiral path arrangement on a planar face of said carrier; and~~

a mover for moving the medicament carrier relative to the housing so as to bring successive medicament retainers individually into communication with the airway.

22. (Original) Inhalation device according to Claim 21, wherein said medicament carrier is a substantially rigid circular disk which is rotatable relative to the housing.

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23. (Original) Inhalation device according to Claim 22, wherein the circumference of said disk is provided with teeth and said teeth engage a worm drive for drivable rotation of said disk.

24. (Previously presented) Inhalation device according to Claim 22, wherein each medicament retainer comprises a pocket in a first face of the disk.

25. (Currently amended) Inhalation device according to Claim 24, wherein the disk defines a second face of the disk has a spiral track and said housing comprises a tracking pin, for receipt of a and said device is arranged such that said tracking pin fixedly mounted on the housing extends into said spiral track, such that as the disk rotates relative to the housing the said tracking pin moves along the spiral track and the disk moves translationally relative to the housing.

26. (Currently amended) Inhalation device comprising

a housing having an air inlet, an air outlet and an airway therebetween;

a substantially planar medicament carrier plate having a generally flat upper surface, having a plurality of medicament retainers positioned along said flat upper surface, said retainers having openings in said upper surface, and said openings positioned in a single spiral path arrangement in the plane of the medicament carrier, each medicament retainer having a seal;

an actuator for progressively unsealing each medicament retainer on the spiral path.

27. (Original) Inhalation device according to Claim 26, additionally comprising a

a mover for moving the medicament carrier relative to the housing so as to bring successive medicament retainers individually into communication with the airway.

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28. (Previously presented) Inhalation device according to Claims 26, wherein each medicament retainer comprises a pocket.

29. (Original) Inhalation device according to Claim 28, wherein said seal comprises a sealing tape arranged along said spiral path and wherein each pocket is serially accessible by peelable removal of the tape.

30. (Original) Inhalation device according to Claim 29, wherein an end of said sealing tape connects to said actuator and peelable removal of the sealing tape is achievable by movement of the actuator.

31. (Original) Inhalation device according to Claim 30, wherein said actuator is rotatable relative to the housing such that rotation of the actuator results in coiling of the tape around the actuator.

32. (Original) Inhalation device according to Claim 31, wherein the actuator is an axially mounted tapered pole.

33. (Currently amended) Inhalation device comprising

a housing having an air inlet, an air outlet and an airway therebetween;

an elongate carrier having a generally flat first surface, a plurality of medicament retainers positioned along the flat first surface, each retainer being defined by an opening in said flat first surface, wherein said elongate carrier is storable in a flat spiral configuration ~~within a plane forming a substantially planar face~~ such that said openings are directed in a common direction; and

a mover in communication with the elongate carrier for helically extending the elongate carrier such as to successively move each medicament retainer to an access position.

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34. (Original) Inhalation device according to Claim 33, wherein each medicament retainer comprises a cavity in the elongate carrier.

35. (Original) Inhalation device according to Claim 34, wherein each medicament retainer has a seal, the device additionally comprising

an actuator for unsealing a medicament retainer at the access position.

36. (Original) Inhalation device according to Claim 35, wherein said seal comprises a sealing tape arranged along the elongate carrier and wherein each successive cavity is accessible by peelable removal of the tape from the elongate carrier.

37. (Original) Inhalation device according to Claim 36, wherein an end of said sealing tape connects to said actuator and peelable removal of the sealing tape is achievable by movement of the actuator relative to the elongate carrier.

38. (Original) Inhalation device according to Claim 37, wherein said mover is rotatable relative to the housing such that rotation of the mover results in coiling of the elongate carrier around the mover, and wherein said actuator is rotatable relative to the housing such that rotation of the actuator results in coiling of the tape around the actuator.

39. (Original) Inhalation device according to Claim 38, wherein the mover is an axially mounted tapered pole and the actuator is also an axially mounted tapered pole.

40. (Previously presented) Inhalation device according to Claim 26 wherein said actuator comprises a piercer for piercably unsealing a medicament retainer.

41. (Original) Inhalation device comprising

a housing having an air inlet, an air outlet and an airway therebetween;

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an elongate carrier having a plurality of doses thereon, wherein said elongate carrier is storable in a flat spiral configuration; and

a mover in communication with the elongate carrier for helically extending the elongate carrier such as to serially move each dose to an access position.

42. (Previously presented) Inhalation device according to Claim 21, wherein said air outlet is provided with a mouthpiece.

43. (Cancelled) ~~Use of an inhalation device according to Claim 21 for the administration of medicament to a patient.~~

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